

No.1ST & final Bill

SBR No. 60/17-18

CONTRACT CERTIFICATE

(For Other Works)

Date 60/11/2018

Division: Electricals (Yelahanka)

Sub-Division: Electricals

Bill Received No.

Dated

Divisional

Cash Book Voucher No. Dated

Sub Divisional

Job Code :-009-17-000045

Schedule Docket No.

Head of Account : P - 3142

D.R.No.

Name of Work :- Providing LED Street Lights as a Pilot Project in ward no 09.

Name of Contractor and Full Address: M/S Sri Lakshmi Varadaraja Electrical Stores.

Reference to Agreement No: EE/El/YZ/WO/ 19 /17-18

Date: 26/05/2017

Certified that the measurements were taken by me on 30/6/17 and recorded of Pages 311501 to 514 of measurement Book No. 3116/17-18 and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 30/5/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

Sub-Division Officer

Asst. Executive Engineer (E)

Yelahanka Sub-Division

Bengaluru Mahanagara Palike

- 1) Total value of work done or supplies made as per account within
- 2) Deduct amount to be held in reserve being percent Rs.
- 3) " " Balance
- 4) Deduct Payment:
 - a) Amount of previous payment as in the Office Cash Book Voucher No. Dated. S.D. No. adjusted towards cash advance recovery of
 - b) Payments } cost store or other material supplied.
Now made } recovery of amount creditable to this/other work
Amount paid on this bill Cheque / Cash.
- 5) Balance being unpaid value of work done held in reserve.
- 6) Deduct cash advance made on the Office cash Book Voucher No. dated. less adjustments.
- 7) Net amount due to or from Contractor unadjustments items.
- 8) Advance to Contractor for materials brought to site (as detailed) within.
- 9) Value of Government materials supplied.

Bill = 15.87.240=00

IT 1% 15872=00

VAT 4% 63490=00

LWC 1% 15872=00

CBFO 1% 1587=00

deductions 96.821=00

Cheque 1490419=00

Total amount adjusted -

Sri Lakshmi Varadaraja Electrical Stores

Contractor's Signature

Received Rs. (in words)

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1. Sri Lakshmi Varadaraja Electrical Stores

2. Signature of Contractor

Dated Paid by me by Cheque No. Dated

Cash Rs.

Dated

Initials of Officer making payment



P3142 Pilot Project

1587.240=00

1490419=00

96.821=00

Executive Engineer

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Sl. No	Description of Item	Unit
Name Of Work:- Providing LED Street Lights as a Pilot Project in ward no 09		
1	Supply and erection of Mtr RCC Pole including earth work etc., complete as per the standard technical specification of BESCOM 8Mtr 145Kg WL	Nos
2	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part III. LED Streetlight 65watts	Nos
3	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I. pipe	Each
4	Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded Aluminium unsheathed wire single core/multi core cable in open or consealed system of wiring. a) 4 sqmm.	Each
5	Supplying of 1.1kv grade Aerial Bunched cable stranded & compacted Aluminium Phase conductor and Stranded Messenger conductor with all aluminium alloy, Phase conductor is insulated with XLPE compound insulated Messenger with specified IS - 14255:1995 & confirming to GTP of group A. 2 X 16 + 1 X 25 SQ.MM	Per Mtr
6	Stringing of 1.1kv LT Aerial Bunched Cable, BESCOM SR	Per Mtr
7	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. 300mmx450mmx214mm	Nos
8	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.f) 40-63 Amps SP, Group A	Each
9	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Each
10	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring. I Group A Materials. g) 16 sqmm	Per Mtr
11	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws	Sqcm

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		10	7500.00	75000.00	10	75000.00	
		75	9500.00	712500.00	75	712500.00	
		125	150.00	18750.00	125	18750.00	
		250	10.00	2500.00	250	2500.00	
		221	90.00	19890.00	221	19890.00	
		221	50.00	11050.00	221	11050.00	
		30	4500.00	135000.00	30	135000.00	
		30	300.00	9000.00	30	9000.00	
		31	5000.00	155000.00	31	155000.00	
		35	20.00	700.00	35	700.00	
		35000	0.33	11375.00	35000	11375.00	

0.30.

10,500/-

10,500.00

12	Open Conduit System: Supplying heavy gauge PVC conduit pipe,..... dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plug in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. c) 25mm dia 2mm thick	Mtrs
13	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. A) 40x40x6mm.	Mtrs
14	Micro processor based electronic timer consisting of Display Unit (LCD), built in Real Time Clock (RTC) and keypad with option to operate relay/contactors in programmable mode (pre-defined ON/OFF time) or astronomical mode (based on sunset and sunrise depending on the latitude and longitude of the location of installation of Switch) or based on Intensity of natural light (lux level using IR sensor), built in software to select the mode of operation by the user	Nos
15	Supplying and stringing of ACSR Conductor (6/2.59mm Al + 1/2.59mm Steel).	Mtrs
16	Supplying and Fixing including all Hardware's etc. complete as per the standard technical specification of BESCOM 1.1 KV Pin Insulator	Nos
17	No. 8 Strain Insulator	Nos
18	Supply and fixing of cross arm including all Hardware's complete as per the standard technical specification of BESCOM. 2 Pin 45x45x5mm -510mm	Nos
19	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 16 sqmm	Mtrs
20	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct. 6 sqmm to 16 sqmm	Mtrs
21	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB I-2, P-7) In soil (ordinary)	Mtrs
22	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 16SWG	Sqcm
23	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 1 sqmm.	Mtrs

Certificate: 1. Certified that the Above Work has been carried out satisfactorily

Proprietor

T. N. Badar
4/11/18

Asst. Executive Engineer (Elec.)
Yelahanka Sub-Division
Bruhat Bangalore Mahanagara Palike

Sh. Lakshmi Varadachari
Electrical Stores

Proprietor

		150	25.00	3750.00	150	3750.00	
		35	200	7000.00	35	7000.00	
		31	9000.00	279000.00	31	279000.00	
		1980	40.00	79200.00	1980	79200.00	
		50	25.00	1250.00	50	1250.00	
		25	16.00	400.00	25	400.00	
		80	400.00	32000.00	80	32000.00	
		200	115.00	23000.00	200	23000.00	
		200	10.00	2000.00	200	2000.00	
		0	75.00	0.00	0	0.00	
		25000	0.30	7500.00	25000	7500.00	
		150.00	15	2250.00	150	2250.00	
				1588115.00		1588115.00	

1587240.00

1587240.00